

## Notes

Complete the following sentences.

### 4.1 Importance of light

1. Light is a form of .
2. It allows us to  things in our surroundings.
3. It is important in some life processes. For instance, plants can make  in the presence of light.

### 4.2 Sources of light

1. Things that give off light are known as  of light.
2. The Sun, stars, firefly and lightning are examples of  sources of light.
3. A lighted candle, torch and street light are examples of  sources of light.

4. Artificial sources of light require electricity or  to work.

### 4.3 How light allows us to see objects

1. When  from a light source falls on an object, it bounces off the surface of the object.
2. We say that the light is  from the object.
3. When light is reflected from an  into our eyes, we can see the object.

### 4.4 Transparency of objects

1. The transparency of a material is its ability to allow  to pass through it.
2. Materials such as clear glass and water allow  light to pass through it.
3. Materials such as metal and wood allow  light to pass through it.
4. Materials such as tracing paper and frosted glass allow  light to pass through it.



## 4.5 Formation of shadows

1. Light travels in  lines.
2. Anything which  the path of light will cast a shadow.
3. A shadow is always formed  the object.
4. A light shadow is formed when light is  blocked.
5. A dark shadow is formed when light is  blocked.

### Shapes of shadows

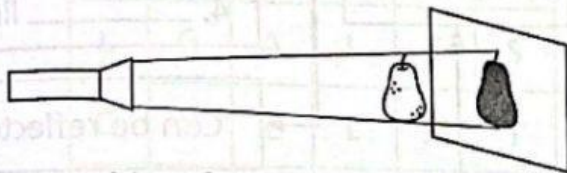
6. A shadow resembles the  of an object but it may not be of similar size as the object.
7. The shadows of an object can be different depending on the  of the object with respect to the light source.

### Sizes of shadows

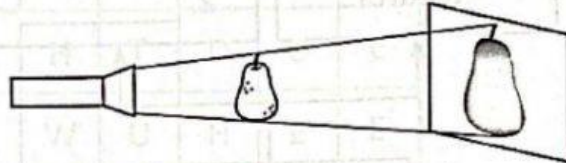
8. The size of a shadow depends on the  of the object from the light source.

9. If the object is ☐☐☐☐☐☐☐☐ from the light source, there will be a smaller shadow.

10. If the object is nearer to the light source, there will be a ☐☐☐☐☐☐☐ shadow.



Object further from the light source

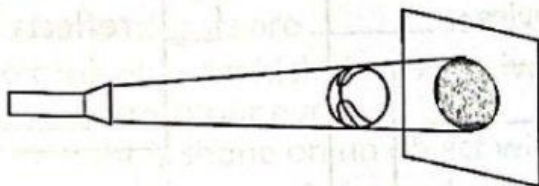


Object nearer to the light source

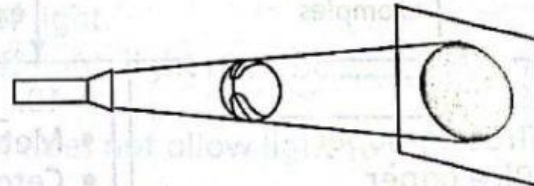
11. The size of a shadow also depends on the ☐☐☐☐☐☐☐☐ of the object from the screen.

12. If the object is nearer to the screen, there will be a ☐☐☐☐☐☐☐ shadow.

13. If the object is ☐☐☐☐☐☐☐☐ from the screen, there will be a bigger shadow.



Object nearer to the screen



Object further from the screen